Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
			and publications, including general literature on modeling. No equations or data provided. 5) one page high level description of cost categories. No equations or data. 6) two page list of acronyms. No data or equations. 7) two page high-level description of investment tables. No vendor data or vendor-dependent equations. 8) two page high level description of the categorization of costs. 9) one page description of layout of pages which follow and how they will describe each generic category of costs. 10) remaining pages containing generic definition and equations for common concepts such as getting started costs, percent utilization factor, marginal cost, average, cost, line termination, Unable to determine if charge on page B23 contains vendor-specific information. Otherwise, no known vendor specific data or equations provided. Examples annotated to indicate that values are for purposes of illustration and not to be construed as typical values.

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
Section 4: Remote Switching Modules (RSMs),	110 pages Bell-IP and Vend-- Comp		Contains: 1) six page table of contents, 2) one page (paragraph) high-level description of what is contained in section. 3) eight page containing definition and description of an RSM. RSM definitions and descriptions can be found in Bellcore publications, and general trade publications (e.g., Telephony). 4) one page generic list of cost categories. 5) two page list of acronyms. 6) four pages listing types of costs, 7) two page high-level description of investment tables. No vendor specific equations or data. 8) one page high-level description of types of that is found on the following pages of the user guide. 9) series of subsections providing high-level definition of such generic concepts as getting started costs, marginal cost, average cost, spare processor capacity, line termination, cost per line, cost per call. It is uncertain whether data

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
			in table on Page B7 is vendor specific. However, no vendor specific equations and data provided. Examples annotated as using values that are for illustration and not typical. Some generic cost allocation equations.
Section 5: 5ESS Office Study Module	84 pages Bell-IP and Vend Comp.		Contains: 1) two page table of contents 2) one page (paragraph) description of what is contained in Section 5. 3) one page explaining that software can run on IBM-PC or clone. 4) two page high level description of what types of information user inputs to computer program. No equations or data. 5) six pages describing that there is a help feature for the program and what some keystrokes do. 6) two page description of how to setup program. No equations or data. 7) several pages describing how to the program responds to certain user inputs. No equations or data. 8) several pages describing output

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
			report formats. No equations or data.
Section 6: 5ESS Tandem Offices	40 pages Bell-IP and Vend-- Comp.		Contains: 1) two page table of contents, 2) one page high-level description of what is contained in Section 6, along brief generic definition of tandem. Tandem definitions can be found in BOC federal and state tariffs, Bellcore publications, pleadings before the FCC, and orders of the FCC. 3) two page high-level description of the type of information the user will have to provide program, the generic types of costs that will be computed (e.g., getting started costs). No vendor specific equations or data. 4) two pages describing the generic categories of costs that are addressed. 5) one page describing the types of information regarding cost categories that are provided on subsequent pages of section. 6) one page list of acronyms. 7) several pages containing generic descriptions of such

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
			common engineering economy terms as getting started costs, average cost, marginal cost, termination costs, processor capacity, cost per trunk and weighted costs. Generic equations for each. Examples have disclaimer that actual values are not used, and those values used should not be considered typical.
Section 7: Signaling System 7 (SS7)	16 pages Bell-IP and Vend-- Comp.		Contains: 1) one page (paragraph) table of contents and one page general introduction to section, stating that it is about SS7 2) four page high-level generic description of SS7 signaling. Information is same as that which is described in publicly available Bellcore publications, periodicals (e.g., Telephony), pleadings to FCC, and FCC orders (e.g., CC Docket No. 86-10). 3) one page high-level generic description of types of equipment needed for deployment of SS7. Information is same as that which is described in publicly available Bellcore publications, periodicals (e.g., Telephony), pleadings to FCC, and FCC orders (e.g., CC Docket No. 86-10).

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
			4) two page high-level generic description of types of information that user must provide to SCIS,
			5) one page description of which data tables are used.
			6) six page description of how costs of SS7 signaling should be computed, as well as a couple of generic cost allocation equation (not specific to any switch or vendor) for computing the cost for an SS7 signal,
Section 8: Glossary of Terms	31 pages Bell-IP		Most, if not all, terms defined are generic terms and their definitions that are found in other Bellcore publications, FCC orders, etc. (e.g., "basic telephone service," "average," "CCS," "central office," "kilo," "loop," "queue")
Appendices: Basic Call Equations	8 pages Bell-IP and Vend-- Comp.		Generic descriptions and some cost allocation equations. No vendor specific data or equations.
Four unlabelled blank SCIS User Input Forms, intended for use with SCIS 5ESS Model.	Bell-IP		Blank forms containing no information.

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
5ESS SCIS User Guide Comment Form,.	1 page		Blank forms containing no information.
Volume 2			
Tab 1: General Information,	17 pages Bell-IP		See, Volume 1, Section 1
Tab 2-19: Basic Centrex	94 pages Bell-IP and Vend-Comp	Detailed equations describing costs associated with providing basic centrex service, Automatic Flexible Rooting, Call Waiting, Individualized Calling Plan, Multiline Hunt and Attendant, Multiway Calling, Call Pickup, Private Facility Dial Access, Terminal Group and Restricted Services, Miscellaneous and Queuing, Application Processor Related, and ETS Features,	Contains: 1) mostly general, generic, descriptions of telephone service offerings (e.g. Feature Group B and D, ANI, three-way calling) that are found in published BOC tariffs, Bellcore publications, and FCC filings and orders. 2) very few high-level, highly simplified, generic cost allocation equations for each service.

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
○		and Carrier Access and Features from a 5ESS switch.	

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
Volume 3 (ISDN) **Tab 1: General Information**	21 pages Bell-IP Vend-Comp		See, Section 1, Volume 2 of 1AESS
Tab 2: ISDN Circuit Switched Voice	73 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing ISDN Circuit Switched Voice Features, ISDN Feature Nos. 0, 1, and 1,1 - 1,12, from a 5ESS switch	See, Section 2, Volume 2 of 1AESS
Tab 3: ISDN Circuit Switched Data	13 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing ISDN Circuit Switched Data Features, ISDN Feature Nos. 301, 301.1, 301.2, and 301.3, from a 5ESS switch	See, Section 2, Volume 2 of 1AESS
Tab 4: Automatic Flexible Routing Features	11 pages	Contains detailed equations describing costs associated with providing ISDN Automatic Flexible Routing Features, ISDN Feature Nos. 3-4 and 6-8, from a 5ESS switch	See, Section 2, Volume 2 of 1AESS

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
Tab 5: Call Forwarding Features	25 pages	Contains detailed equations describing costs associated with providing ISDN Call Forwarding Features, ISDN Feature Nos. 9-18 and 129-130, from a 5ESS switch.	See, Section 2, Volume 2 of 1AESS
Tab 6: Call Waiting Features	10 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing ISDN Call Waiting Features, ISDN Feature Nos. 20-25, from a 5ESS switch	See, Section 2, Volume 2 of 1AESS
Tab 7: Individualized Calling Plan Features	13 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing ISDN Individualized Calling Plan Features, ISDN Feature Nos. 27 and 29-33, from a 5ESS switch.	See, Section 2, Volume 2 of 1AESS
Tab 8: Multiline Hunt and Attendant Features,	75 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing iSDN Multiline Hunt and Attendant Features,	See, Section 2, Volume 2 of 1AESS

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
		ISDN Feature Nos. 34-41, 43, 90, 91, 97, 98, 135, 238, 240-257, 289, 291, and 293, from a 5ESS switch	
Tab 9: Multiway Calling Features,	29 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing ISDN Multiway Calling Features, ISDN Feature Nos. 42 and 44-56, from a 5ESS switch.	See, Section 2, Volume 2 of 1AESS
Tab 10: Call Pickup Features,.	13 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing ISDN Call Pickup Features, ISDN Feature Nos. 57-62, from a 5ESS switch.	See, Section 2, Volume 2 of 1AESS
Tab 11: Private Facility Dial Access Features,	39 pages. Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing Private Facility Dial Access Features, ISDN Feature Nos. 28, 63-77, 290, 321, and 322, from a 5ESS switch.	See, Section 2, Volume 2 of 1AESS
Tab 12:	23 pages	Contains detailed	See, Section 2, Volume 2 of 1AESS

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
Miscellaneous and Queuing Features,	Bell-IP Vend-Comp	equations describing costs associated with providing ISDN Miscellaneous and Queuing Features, ISDN Feature Nos. 2, 88, 89, 93, 107, 137, 277, and 288, from a 5ESS switch	
Tab 13: Terminal Group and Restricted Services Features,	23 pages	Contains detailed equations describing costs associated with providing ISDN Terminal Group and Restricted Services Features, ISDN Feature Nos. 79-80, 92, 100-101, and 131, from a 5ESS switch.	See, Section 2, Volume 2 of 1AESS
Tab 14: Application Processor Related Features,	13 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing ISDN Application Processor Related Features, ISDN Feature Nos. 82, 87, 102, 134, and 220, from a 5ESS switch.	See, Section 2, Volume 2 of 1AESS
Tab 15: Electronic Tandem Switch Features,	9 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing Electronic Tandem Switch (ETS)	See, Section 2, Volume 2 of 1AESS

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
		Features, ISDN Feature Nos. 83, 84, 86 and 94-95, from a 5ESS switch.	
Tab 16: Switched Access Service Features,	13 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing Feature Group service Features, Feature Nos. 103-106, from a 5ESS switch.	See, Section 2, Volume 2 of 1AESS
Tab 17: Packet Switching Service Features,	37 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing Packet Switching Service Features, ISDN Feature Nos. 202-216, 280, and 302-304, from a 5ESS switch	See, Section 2, Volume 2 of 1AESS
Tab 18: Data Services Features,	5 pages Bell-IP Vend-Comp	Contains detailed equations describing costs associated with providing ISDN Data Service Features, Feature Nos. 201 and 217-219, from a 5ESS switch	See, Section 2, Volume 2 of 1AESS
Tab 19: Message Services Features,	39 pages Bell-IP Vend-	Contains detailed equations describing costs associated with	See, Section 2, Volume 2 of 1AESS

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
	Comp	providing ISDN Message Services Features, ISDN Feature Nos. 221-229, 287, and 292, from a 5ESS switch.	
etc.			

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
Volume 4			
Volume 1 Table of Contents	1 page		Not identified in FCC Vaughn Index
Section 1: Introduction	9 pages Bell-IP		Contains: 1) one page table of contents 2) one page general brief description of user guide, welcoming users, and description of purpose of guide. 3) three page description of the layout of pages of user manuals 4) one page general description of how Volume 4 is organized 5) one page explaining that the SCIS program can be used on computer is run on an IBM or IBM clone computer. 6) one page explaining that a user can call Bellcore for help in using the program. 7) one page explaining that feedback forms can be found in other sections of the user guide. 8) one page explaining that the user should make sure that Bellcore has an up-to-date address to send things to.

VAUGHN INDEX PART I
Subpart B: SCIS User Guide
For AT&T 5ESS Volumes
(pages 5-10 of FCC Vaughn Index)
Page 19

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
	○		
Section 2: General Description	37 pages Bell-IP		Contains: 1) one page table of contents for Section 2 2) one page nontechnical overview of SCIS. Contains no information that has not been publicly disclosed in previous submissions by Bellcore in public filings to the FCC, FCC orders, or presentations and publications of Bellcore or BOC personnel, and filings in this proceeding. 3) five page generic description of ISDN and the evolution towards it. This information can be found in Bellcore publications involving ISDN, published periodicals (e.g. Telephony), and pleadings before the FCC, and FCC orders, as well as service descriptions of ISDN offerings in Bell Operating Company tariffs. 4) one page description of CCITT standards activity involving ISDN. Found in publicly available CCITT publications addressing ISDN. 5) twenty-two pages explaining generic ISDN architecture. the same information has been previously disclosed by Bellcore in public filings to the FCC, FCC orders, presentations, and publications of Bellcore or BOC

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
			personnel.
			6) one page general description of SCIS provided by SCIS; the same information has been previously disclosed by Bellcore in public filings to the FCC, FCC orders, presentations and publications of Bellcore or BOC personnel. and filings in this proceeding.
			7) two page general description and matrix providing high-level generic listing of types of cost studies that SCIS performs;
			8) four page general high-level description of steps for developing equations for SCIS. One page flow chart. No equations. switch processes, or data are set forth. The same information was provided in Britt affidavit, US West and Bellcore filings before this court, and was described in FCC orders. Concepts described a common to standard mathematical modeling. No unique information provided. Section also explains that model switch office is based on functional description of switch, rather than technical description of the office.
Section 3: ISDN Model Office	166 pages. Bell-IP		Contains: 1) four page table of contents;

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
	and Vend-- Comp		2) one page (paragraph) generic introduction to what section addresses.
			3) two pages containing generic definition of ISDN model office, generic equation for total cost (i.e., that is the sum of all costs). No non-public data or equations provided.
			4) nine pages provide high-level list of what types of information to formulating the model office and generic description of model office. Available in public filings and publications, including general literature on modeling. No equations or data provided.
			5) one page generic description of modeling steps.
			6) two page high level description of cost categories. No equations or data.
			7) two page high-level description of investment tables. No vendor-specific data or equations.
			8) two page high level description of the categorization of costs.
			9) remaining pages containing generic definition and equations for common concepts such as getting started costs, percent utilization factor, marginal cost,

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
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			average, cost, line termination. No known vendor specific data or equations provided. Examples annotated to indicate that values are for purposes of illustration and not to be construed as typical values.
Section 5: 5ESS ISDN Office Study Module	52 pages Bell-IP and Vend Comp		Contains: 1) one page table of contents 2) one page description of what is contained in Section 5. 3) one page high level description of what types of information user inputs to computer program. No equations or data. 5) two pages describing that there is a help feature for the program and what some keystrokes do. 6) several pages describing how to the program responds to certain user inputs. No equations or data. 7) several pages describing output report formats. No equations or data. 8) several blank forms

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Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
Subpart B: SCIS User Guide **Northern Telecom DMS-100/200** Section 1: DMS-100 ISDN Planning Module	39 pages Bell-IP		Contains same information as Section 1 of 1ESS and 5ESS Volume 1, Section 1
Section 2: General Description	7 pages Bell-IP		Contains: 1) one page table of contents 2) thee page high level description of SCIS. Same as information already presented in pleadings, FCC orders, and Bellcore affidavits. 3) four page general high-level description of steps for developing equations for SCIS. One page flow chart. No equations. switch processes, or data are set forth. The same information was provided in Britt affidavit, US West and Bellcore filings before this court, and was described in FCC orders. Concepts described a common to standard

Key to FCC Basis for Withholding: "Bell-IP" ➡ Bellcore interests in intellectual property.
"Vend-Comp" ➡ Switch Vendor interests in competitively sensitive information.

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
			mathematical modeling. No unique information provided. Section also explains that model switch office is based on functional description of switch, rather than technical description of the office.
Section 3: Model Office - Standalone/Host	187 pages.	Bell-IP and Vend-Comp	Contains: 1) three page table of contents; 2) one page (paragraph) generic introduction to what section addresses. 3) one page high level overview of recent changes to documentation. 4) one page containing generic definition of model office, generic equation for total cost (i.e., that is is the sum of all costs). No non-public data or equations provided. 5) four pages provide high-level list of what types of information go into formulating the model office and generic description of model office. Available in public filings and publications, including general literature on modeling. No equations or data provided. 6) one page high level description of cost categories. No equations or data.

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VAUGHN INDEX PART I
Subpart B: SCIS User Guide
For Northern Telecom DMS-100/200 Volumes
(pages 11-17 of FCC Vaughn Index)
Page 3

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
°			7) two page high level description of categories of costs.
			8) five page high-level description of investment tables. No vendor data or vendor-dependent equations.
			9) two page high level description of the categorization of costs.
°			10) remaining pages containing generic definition and equations for common concepts such as getting started costs, percent utilization factor, marginal cost, average, cost, line termination. No known vendor specific data or equations provided. Examples annotated to indicate that values are for purposes of illustration and not to be construed as typical values.
Section 4: DMS-Model Office - Remotes	121 pages.	Bell-IP and Vend-Comp	Contains:
			1) two page table of contents;
			2) one page (paragraph) generic introduction to what section addresses.
			3) one page high level overview of recent changes to documentation.
°			4) two page containing generic definition of remote office. No non-public data or equations provided. Common definitions

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
			and explanations found in published literature of Bellcore, trade publications (e.g., Telephony), as well as cost allocation proceedings of the FCC (Docket No. 90-286/78-72) 5) two page high-level generic description of cost categories (same as those found in all other documents). No data or equations. 6) seven page high-level description of investment tables. No vendor data or vendor-dependent equations. 7) one page explaining what types of information will be provided in the following pages. 8) remaining pages containing generic definition and equations for common concepts such as getting started costs, percent utilization factor, marginal cost, average, cost, line termination. No known vendor specific data or equations provided. Examples annotated to indicate that values are for purposes of illustration and not to be construed as typical values.
Section 5: DMS-100/200 Office Study Module	33 pages (sic) Bell-IP		Contains: 1) one page table of contents

Description	Pages FCC Claimed Exemption	Commission Description	Allnet Counter Description and Exemption 4 Analysis
ᵒ	and Vend Comp		2) one page (paragraph) description of what is contained in Section 5.

3) two page high level description of what types of information user inputs to computer program. No equations or data.

4) several pages description of how to setup program. No equations or data and how to the program responds to certain user inputs. No equations or data.

5) several pages describing output report formats. No equations or data. |
| Section 6: Organization of Feature Documentation | 16 pages (sic) Bell-IP and Vend Comp | . | Contains:

1) one page table of contents

2) one page (paragraph) description of what is contained in Section 6.

3) two page describing the organization of the Feature Group Documentation.

4) two page high level description of what types of information user inputs to computer program. No equations or data.

5) four pages of high level |